



PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM Books

Search PubMed

for

Go

Clear

Limits

Preview/Index

History

Clipboard

Details

About Entrez

Display

Abstract

Sort

Save

Text

Clip Add

Order

Text Version

☐ 1: Nat Biotechnol 1998 Jan;16(1):40-4

Related Articles, Cited in PMC, Cited in Books, Books, LinkOut

Entrez PubMed
Overview
Help | FAQ
Tutorial
New/Noteworthy
E-Utilities

PubMed Services
Journal Browser
MeSH Browser
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
LinkOut
Cubby

Related Resources
Order Documents
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Privacy Policy

DNA chips: state-of-the art.

Ramsay G.

Wolpert Polymers, Inc., Richmond, VA 23225-4636, USA. ramsayg@aol.com

The technology and applications of microarrays of immobilized DNA or oligonucleotides are reviewed. DNA arrays are fabricated by high-speed robotics on glass or nylon substrates, for which labeled probes are used to determine complementary binding allowing massively parallel gene expression and gene discovery studies. Oligonucleotide microarrays are fabricated either by in situ light-directed combinational synthesis or by conventional synthesis followed by immobilization on glass substrates. Sample DNA is amplified by the polymerase chain reaction (PCR), and a fluorescent label is inserted and hybridized to the microarray. This technology has been successfully applied to the simultaneous expression of many thousands of genes and to large-scale gene discovery, as well as polymorphism screening and mapping of genomic DNA clones.

Publication Types:

- Review
- Review, Tutorial

PMID: 9447591 [PubMed - indexed for MEDLINE]

Display

Abstract

Sort

Save

Text

Clip Add

Order

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services
Freedom of Information Act | Disclaimer

sparc-sun-solaris2.8 Oct 3 2002 17:11:49